



CALS TEST NETWORK

CTN Test Report 93-011

AFCTB-ID
92-061



Tape Transfer Test

Using:



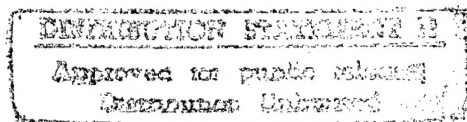
Sikorsky Aircraft Data



MIL-STD-1840A



Quick Short Test Report



1 October 1992



Prepared for
Electronic Systems Center

DTIC QUALITY INSPECTED 3

19960822 195

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1 October 1992

Prepared By

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DTIC QUALITY INSPECTED 3

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Contents

1.	Introduction.....	1
1.1.	Background.....	1
1.2.	Purpose.....	2
2.	Test Parameters.....	3
3.	1840A Analysis.....	4
3.1.	External Packaging.....	4
3.2.	Transmission Envelope.....	4
3.2.1.	Tape Formats.....	4
3.2.2.	Declaration and Header Fields.....	5
4.	IGES Analysis.....	5
5.	SGML Analysis.....	5
6.	Raster Analysis.....	5
7.	CGM Analysis.....	5
8.	Conclusions and Recommendations.....	6
9.	Appendix A - Tapetool Report Logs.....	7
9.1.	Tape Catalog.....	7
9.2.	Tape Evaluation Log.....	9
9.3.	Tape File Set Validation Log.....	11
9.4.	Other Tape Reading Logs.....	18

1. Introduction

1.1 Background

The Department of Defense (DoD) Computer-aided Acquisition and Logistics Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The CTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the CTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the CTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by CTN participants. They also allow the CTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the CTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Sikorsky Aircraft's interpretation and use of the CALS standards in transferring technical publications data. Sikorsky used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the CTN technical staff on a 9-track magnetic tape. Only the tape was to be tested.

2. Test Parameters

Test Plan: AFCTB 92-061

Date of
Evaluation: 1 October 1992

Evaluators: George Elwood
Air Force CALS Test Bed
HQ ESC/ENCS
4027 Colonel Glenn Hwy
Suite 200
Dayton, OH 45431-1601

Data
Originator: Frank Kransnicki
Sikorsky Aircraft
MS: B205A
6900 Main Street
Stratford, CT 06601-1381

Data
Description: Tape Transfer Test

Data
Source System:

MIL-STD-1840A

Evaluation
Tools Used:

MIL-STD-1840A (TAPE)
SUN 3/280
CTN Tapetool v1.2.8 UNIX
AGFA Compugraphics CAPS/CALS v40.4

Standards
Tested: MIL-STD-1840A

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with the magnetic tape warning label, as required by MIL-STD1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed a lack of the label indicating the recording density as required by MIL-STD-1840A, para. 5.3.1. Some 9-track tape units require this BPI to be set manually. No packing list, showing all files that were recorded on the tape, was included in the box.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The 1840A Tape was run through the AFCTB Tapetool v1.2.8 utility. Six errors and six notes were generated while evaluating the contents of the tape labels. A note was reported on the tape label version. MIL-STD-1840A permits the use of both versions three and four. The use of the most current standard should be used and noted.

Invalid block size errors were reported for the CGM, Output Specification, and Page Description files. This resulted in Tapetool truncating the files. The CGM files should have a block size of 800 instead of the 2048 which was reported by Tapetool. The output specification had a block length of 256 when 260 was expected. A block length of 260 includes the data length of 256 plus four for the record control word. See the logs in the appendix to this report.

The incorrect block lengths cause the AGFA read1840A utility to do a core dump. See the log in Appendix A of this report.

3.2.2 Declaration and Header Fields

No errors were found in the Document Declaration file headers.

File D001C010's header generated an invalid fixed record length.

An error was reported with the file numbering. After checking the files, it was discovered that the numbering was correct but not in the format that *Tapetool* was expecting. This is not considered an error.

4. IGES Analysis

Not tested.

5. SGML Analysis

Not tested.

6. Raster Analysis

Not tested.

7. CGM Analysis

Not tested.

8. Conclusions and Recommendations

In summary, the MIL-STD-1840A tape from Sikorsky Aircraft had several critical errors. The incorrect blocking of some files resulted in the lose of data. The incorrect blocking also caused another tape utility to generate a core dump.

The tape submitted by Sikorsky Aircraft does not meet the CALS MIL-STD-1840A requirements.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

- MIL-STD-1840A (1987) - Automated Interchange of Technical Information
- MIL-R-28003 (1988) - Digital Representation For Communication Of
Illustration Data; CGM Application Profile
- ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
for Information Interchange
- ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Oct 1 16:12:48 1992

MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set096

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00260	02048/000001	Extracted
D001G003	DTD	D/00260	02048/000019	Extracted
D001G012	DTD	D/00260	02048/000003	Extracted
D001T001	Text	D/00260	02048/000010	Extracted
D001T002	Text	D/00260	02048/000001	Extracted
D001R008	Raster	F/00128	02048/000004	Extracted
D001R009	Raster	F/00128	02048/000006	Extracted
D001C010	CGM	F/00256	02048/000003	Extracted
*** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size: Header => 02048, Expected => 800				
*** ERROR (MIL-D-28003; 3.1.5) - Invalid fixed record size encountered. Header => 256, Expected => 80				
D001C011	CGM	F/00256	02048/000037	Extracted
*** ERROR (MIL-D-28003; 3.1.5) - Invalid Block Size: Header => 02048, Expected => 800				
*** ERROR (MIL-D-28003; 3.1.5) - Invalid fixed record size encountered. Header => 256, Expected => 80				
D001Q013	IGES	F/00080	02000/000443	Extracted
D001Q012	IGES	F/00080	02000/000155	Extracted
D001H004	Output Specification	F/00256	02048/000025	Extracted
*** ERROR - Invalid Recording Format: Header => F, Expected => D				

*** NOTE - Unexpected maximum variable record size encountered. Header => 256, Expected => 260

*** NOTE (ANSI X3.27; 8.5.2.6) - Record Length for Recording Format Type D shall be the maximum length of a Measured Data Unit (MDU).

*** NOTE (ANSI X3.27; 7.2.3) - A variable length record shall be contained in an MDU. An MDU consists of a four byte Record Control Word (RCW) followed immediately by the variable record.

*** NOTE (ANSI X3.4) - A Record Control Word shall consist of four characters that express the sum of the lengths of the RCW and the variable record.

D001P011 PDL F/00256 02048/000538 Extracted

*** ERROR - Invalid Recording Format:
Header => F, Expected => D

*** NOTE - Unexpected maximum variable record size encountered. Header => 256, Expected => 260

Catalog Process terminated with 6 error(s), 0 warning(s), and 5 note(s).

9.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release Number 8

Standards referenced:

ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Oct 1 16:11:55 1992

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1XYVI01

XYVISION R100

3

Label Identifier: VOL1

Volume Identifier: XYVI01

Volume Accessibility:

Owner Identifier: XYVISION R100

Label Standard Version: 3

*** NOTE (ANSI X3.27; 8.3.1.8) - The Label Standard Version
should be 4 to represent the current level of ANSI X3.27.

HDR1D001

XYVI0100010001000100 92190000000 000000XYVISION R100

Label Identifier: HDR1

File Identifier: D001

File Set Identifier: XYVI01

File Section Number: 0001

File Sequence Number: 0001

Generation Number: 0001

Generation Version Number: 00

Creation Date: 92190

Expiration Date: 000000

File Accessibility:

Block Count: 000000

Implementation Identifier: XYVISION R100

HDR2D0204800260

00

Label Identifier: HDR2

Recording Format: D

Block Length: 02048

Record Length: 00260

Offset Length: 00

***** Tape Mark *****

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

***** Tape Mark *****

EOF1D001 XYVI0100010001000100 92190000000 000001XYVISION R100

Label Identifier: EOF1
File Identifier: D001
File Set Identifier: XYVI01
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 00
Creation Date: 92190
Expiration Date: 000000
File Accessibility:
Block Count: 000001
Implementation Identifier: XYVISION R100

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

***** Tape Mark *****

<<<< PART OF LOG REMOVED HERE >>>>

***** Tape Mark *****

***** Tape Mark *****

End of Volume XYVI01

End Of Tape File Set

Deallocating /dev/rmt0...

Tape Import Process terminated with 0 error(s), 0 warning(s),
and 1 note(s).

9.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release Number 8

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

MIL-R-28002 (1989) - Raster Graphics Representation In Binary
Format, Requirements For

Thu Oct 1 16:12:48 1992

MIL-STD-1840A File Set Evaluation Log

File Set: Set096

Found file: D001

Renaming file from => /cals/tapetool8/Set096/D001

to => /cals/tapetool8/Set096/TEMP

Creating directory => /cals/tapetool8/Set096/D001

Renaming file from => /cals/tapetool8/Set096/TEMP

to => /cals/tapetool8/Set096/D001/D001

Copying file from => /cals/tapetool8/Set096/D001/D001

to => /cals/tapetool8/Set096/D001/D001_HDR

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: 256

srcdocid: ati_cals_demo

srcrelid: NONE

chglvl: ORIGINAL

dteisu: 19911101

dstsys: Sikorsky Aircraft, 6900 Main St., MSB205A, Stratford, Conn

dstdocid: ati_cals_demo

dstrelid: NONE

dtetrm: 19920518

dlvacc: NONE

filcnt: G2,H1,P1,R2,T2, C2, Q2

ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: Technical Order

docttl: NONE

Found file: D001G003

Renaming file from => /cals/tapetool8/Set096/D001G003

to => /cals/tapetool8/Set096/D001/D001G003

Extracting DTD Header Records...

Evaluating DTD Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: DTD

Saving DTD Header File: D001G003_HDR
Saving DTD Data File: D001G003_DTD

Found file: D001G012
Renaming file from => /cals/tapetool8/Set096/D001G012
to => /cals/tapetool8/Set096/D001/D001G012
Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: ArborText Math Pack

Saving DTD Header File: D001G012_HDR
Saving DTD Data File: D001G012_DTD

Found file: D001T001
Renaming file from => /cals/tapetool8/Set096/D001T001
to => /cals/tapetool8/Set096/D001/D001T001
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: SGML

Saving Text Header File: D001T001_HDR
Saving Text Data File: D001T001_TXT

Found file: D001T002
Renaming file from => /cals/tapetool8/Set096/D001T002
to => /cals/tapetool8/Set096/D001/D001T002
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: File entity

Saving Text Header File: D001T002_HDR
Saving Text Data File: D001T002_TXT

Found file: D001R008
Renaming file from => /cals/tapetool8/Set096/D001R008
 to => /cals/tapetool8/Set096/D001/D001R008
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1g4
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 001120,000849
rdensty: 0200
notes: NONE

Saving Raster Header File: D001R008_HDR
Saving Raster Data File: D001R008_GR4

Found file: D001R009
Renaming file from => /cals/tapetool8/Set096/D001R009
 to => /cals/tapetool8/Set096/D001/D001R009
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: seal.dod
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 000720,000713
rdensty: 0300
notes: NONE

Saving Raster Header File: D001R009_HDR
Saving Raster Data File: D001R009_GR4

Found file: D001C010
Renaming file from => /cals/tapetool8/Set096/D001C010
 to => /cals/tapetool8/Set096/D001/D001C010
Extracting CGM Header Records...

Evaluating CGM Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1cgm
doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D001C010_HDR

Saving CGM Data File: D001C010_CGM

*** I/O ERROR (read_rec) - Invalid fixed record length.
Fixed bytes read => 64, Expected => 80;

*** NOTE - The file is probably not an ANSI Type F file
or the last record may not be complete.

Found file: D001C011

Renaming file from => /cals/tapetool8/Set096/D001C011
to => /cals/tapetool8/Set096/D001/D001C011

Extracting CGM Header Records...

Evaluating CGM Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test2cgm
doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D001C011_HDR

Saving CGM Data File: D001C011_CGM

Found file: D001Q013

Renaming file from => /cals/tapetool8/Set096/D001Q013
to => /cals/tapetool8/Set096/D001/D001Q013

Extracting IGES Header Records...

Evaluating IGES Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: test1lgs
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D001Q013_HDR
Saving IGES Data File: D001Q013_IGS

Found file: D001Q012
Renaming file from => /cals/tapetool8/Set096/D001Q012
to => /cals/tapetool8/Set096/D001/D001Q012
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
figid: NONE
srcgph: sh60.sideview
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D001Q012_HDR
Saving IGES Data File: D001Q012_IGS

Found file: D001H004
Renaming file from => /cals/tapetool8/Set096/D001H004
to => /cals/tapetool8/Set096/D001/D001H004
Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: FOSI

Saving Output Specification Header File: D001H004_HDR
Saving Output Specification Data File: D001H004_OS

Found file: D001P011
Renaming file from => /cals/tapetool8/Set096/D001P011
to => /cals/tapetool8/Set096/D001/D001P011
Extracting PDL Header Records...
Evaluating PDL Header Records...

srcdocid: ati_cals_demo
dstdocid: ati_cals_demo
txtfilid: W
doccls: UNCLASSIFIED
notes: PostScript version of this document

Saving PDL Header File: D001P011_HDR
Saving PDL Data File: D001P011_PDL

Evaluating numbering scheme...

*** ERROR (MIL-STD-1840A; 5.1.3) - The data files for Document D001 were not numbered properly.

*** NOTE (MIL-STD-1840A; 5.1.3) - The first data file for a Document shall use "001" and the number shall increment sequentially for each file of the Document so that each file has a unique file name.

Renumbering data files...

Renumbering Text File from => D001T002 to => D001T012

Renaming file from => /cals/tapetool8/Set096/D001/D001T002
to => /cals/tapetool8/Set096/D001/D001T012

Renaming file from => /cals/tapetool8/Set096/D001/D001T002_HDR
to => /cals/tapetool8/Set096/D001/D001T012_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001T002_TXT
to => /cals/tapetool8/Set096/D001/D001T012_TXT

Renumbering Text File from => D001T001 to => D001T011

Renaming file from => /cals/tapetool8/Set096/D001/D001T001
to => /cals/tapetool8/Set096/D001/D001T011

Renaming file from => /cals/tapetool8/Set096/D001/D001T001_HDR
to => /cals/tapetool8/Set096/D001/D001T011_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001T001_TXT
to => /cals/tapetool8/Set096/D001/D001T011_TXT

Renumbering Raster File from => D001R009 to => D001R010

Renaming file from => /cals/tapetool8/Set096/D001/D001R009
to => /cals/tapetool8/Set096/D001/D001R010

Renaming file from => /cals/tapetool8/Set096/D001/D001R009_HDR
to => /cals/tapetool8/Set096/D001/D001R010_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001R009_GR4
to => /cals/tapetool8/Set096/D001/D001R010_GR4

Renumbering Raster File from => D001R008 to => D001R009

Renaming file from => /cals/tapetool8/Set096/D001/D001R008
to => /cals/tapetool8/Set096/D001/D001R009

Renaming file from => /cals/tapetool8/Set096/D001/D001R008_HDR
to => /cals/tapetool8/Set096/D001/D001R009_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001R008_GR4
to => /cals/tapetool8/Set096/D001/D001R009_GR4

Renumbering IGES File from => D001Q013 to => D001Q008

Renaming file from => /cals/tapetool8/Set096/D001/D001Q013
to => /cals/tapetool8/Set096/D001/D001Q008

Renaming file from => /cals/tapetool8/Set096/D001/D001Q013_HDR
to => /cals/tapetool8/Set096/D001/D001Q008_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001Q013_IGS
to => /cals/tapetool8/Set096/D001/D001Q008_IGS

Renumbering IGES File from => D001Q012 to => D001Q007

Renaming file from => /cals/tapetool8/Set096/D001/D001Q012
to => /cals/tapetool8/Set096/D001/D001Q007

Renaming file from => /cals/tapetool8/Set096/D001/D001Q012_HDR
to => /cals/tapetool8/Set096/D001/D001Q007_HDR

Renaming file from => /cals/tapetool8/Set096/D001/D001Q012_IGS
to => /cals/tapetool8/Set096/D001/D001Q007_IGS

Renumbering PDL File from => D001P011 to => D001P006
Renaming file from => /cals/tapetool8/Set096/D001/D001P011
to => /cals/tapetool8/Set096/D001/D001P006
Renaming file from => /cals/tapetool8/Set096/D001/D001P011_HDR
to => /cals/tapetool8/Set096/D001/D001P006_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001P011_PDL
to => /cals/tapetool8/Set096/D001/D001P006_PDL
Renumbering Output Specification File from => D001H004 to => D001H005
Renaming file from => /cals/tapetool8/Set096/D001/D001H004
to => /cals/tapetool8/Set096/D001/D001H005
Renaming file from => /cals/tapetool8/Set096/D001/D001H004_HDR
to => /cals/tapetool8/Set096/D001/D001H005_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001H004_OS
to => /cals/tapetool8/Set096/D001/D001H005_OS
Renumbering DTD File from => D001G012 to => D001G004
Renaming file from => /cals/tapetool8/Set096/D001/D001G012
to => /cals/tapetool8/Set096/D001/D001G004
Renaming file from => /cals/tapetool8/Set096/D001/D001G012_HDR
to => /cals/tapetool8/Set096/D001/D001G004_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001G012_DTD
to => /cals/tapetool8/Set096/D001/D001G004_DTD
Renumbering CGM File from => D001C011 to => D001C002
Renaming file from => /cals/tapetool8/Set096/D001/D001C011
to => /cals/tapetool8/Set096/D001/D001C002
Renaming file from => /cals/tapetool8/Set096/D001/D001C011_HDR
to => /cals/tapetool8/Set096/D001/D001C002_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001C011_CGM
to => /cals/tapetool8/Set096/D001/D001C002_CGM
Renumbering CGM File from => D001C010 to => D001C001
Renaming file from => /cals/tapetool8/Set096/D001/D001C010
to => /cals/tapetool8/Set096/D001/D001C001
Renaming file from => /cals/tapetool8/Set096/D001/D001C010_HDR
to => /cals/tapetool8/Set096/D001/D001C001_HDR
Renaming file from => /cals/tapetool8/Set096/D001/D001C010_CGM
to => /cals/tapetool8/Set096/D001/D001C001_CGM
Updating Map File for Document D001
*** NOTE - 11 file(s) were renumbered.
Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.
File Count verification complete.

A total of 1 error(s), 0 warning(s), and 0 note(s) were
encountered in Document D001.

A grand total of 1 error(s), 0 warning(s), and 0 note(s) were
encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

9.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001' ---
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/aticalsdemo.G.dtd'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/aticalsdemo.G.dtd'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/W.T.sgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/W.T.sgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1g4.R.cci'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/sealdod.R.cci'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1cgm.C.cgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test2cgm.C.cgm'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/test1igs.Q.igs'.
/cals/caps/Bin/read1840A: writing data file 'aftb9261/aticalsdemo/sh60sideview.Q.igs'.
/cals/caps/Bin/read1840A: file error: expected 'srcdocid...', saw 'ocid: ati_cals_demo
dstdocid: ati_cals_demo
notes: FOSI
<!DOCTYPE OUTSPEC PUBLIC "-//ArborText//DTD OUTPUT SPEC 910815//EN" [
<!--The Publisher, ArborText, Inc., 1988-1991, v.4001-->
<ENTITY % test "IGNORE">
]>
<?Pub UDT eic e-i-c>
<?Pub Inc>
<outspec>
<!--No warranties are expressed or implied as the suitability of this FOSI
for preparation of MIL-M-63036C documents.--><?Pub Caret>
<rsrctdesc>
<charfill literal=" ." cfid="tocfill">
<charfill literal=" " cfid="spfill">
<charfill literal="_" orient="horiz" type="ff" cfid="underfill">
<counter enumid="ftnct" style="arabic" initial="0">
<counter initial="1" style="arabic" enumid="folioct">
<counter initial="1" style="romanlc" enumid="ifolioct">
<counter enumid="figct" style="arabic" initial="0">
<counter enumid="tabct" style="arabic" initial="0">
<counter enumid="chct" style="romanuc" initial="0">
<counter initial="0" style="arabic" enumid="sectct">
<counter initial="0" style="arabic" enumid="paract">
<counter initial="0" style="arabic" enumid="sp1ct">
<counter initial="0" style="arabic" enumid="sp2ct">
<counter initial="0" style="arabic" enumid="sp3ct">
<counter initial="0" style="arabic" enumid="step1ct">
<counter initial="0" style="alphacl" enumid="step2ct">
<counter initial="0" style="romanlc" enumid="step3ct">
<counter initial="1" style="arabic" enumid="seqlistct">
```

```
<counter initial="0" style="arabic" enumid="seq1ct">
<counter initial="0" style="alphalc" enumid="seq2ct">
<counter initial="0" style="romanlc" enumid="seq3ct"></rsrctdesc>
<pagedesc>
<pageset id="nstm">
<rectopg>
<pagespec>
<topmarg nomdepth="4pi">
<botmarg nomdepth="2pi">
<leftmarg width="5pi">
<rtmarg width="5pi">
<header>
<usetext source="\Digital Database\,spfill,docno,\,\,chhdno,spfill,\Complete thru Change 1\"
placemnt="before">
<subchars>
<quadding lastquad="ljustify" quad="justify"></subchars>
</usetext>
<usetext source="\_,underfill,\_" placemnt="after">
<subchars>
<presp minimum="-3pt" nominal="-3pt" maximum="-3pt">
<textbrk startln="1"></subchars>
</usetext>
</header>
<footer>
<uset
```